

ABSTRACT OF THE DISCLOSURE

5 A method of tracking phase error of OFDM pilots in an OFDM
frame includes adjusting a width of a closed loop tracking bandwidth of a
pilot phase tracking loop while receiving OFDM data symbols to minimize
frequency errors resulting from frequency pushing and frequency pulling in
an OFDM transceiver. In one variation, the adjusting includes operating the
10 pilot tracking loop at a closed loop tracking bandwidth that is wider than a
nominal closed loop tracking bandwidth when tracking one or more OFDM
data symbols at the beginning of a data portion of an OFDM MAC frame and
then reducing the closed loop tracking bandwidth of the pilot tracking loop to
the nominal closed loop tracking bandwidth when tracking OFDM data
15 symbols subsequent to the one or more OFDM data symbols.